

Mumbai University

Question Paper

**[CBSGS – 75:25 PATTERN]
(APRIL – 2015)**

PAPER - IV

ELECTIVE

**PROJECT
MANAGEMENT**

Time: 2 ½ Hours**Total Marks:** 75**N.B.:** (1) All Question are Compulsory.

(2) Make Suitable Assumptions Wherever Necessary And State The Assumptions Made.

(3) Answer To The Same Question Must Be Written Together.

(4) Number To The Right Indicates Marks.

(5) Draw Neat Labeled Diagrams Wherever Necessary.

(6) Use of Non – Programmable Calculator is allowed.

Q.1 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

- (A) Discuss the significance, of reducing the product size, on ROI (Returns On Investment). Explain, briefly, (5)
how the product size can be reduced.0
- (B) Discuss the key practices that improve overall Software Quality. (5)
- (C) Discuss Boehm's Staffing Principles. (5)
- (D) Evolution of Software Economics over three Generations. (5)

Q.2 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

- (A) Discuss the Lifecycle, defined for Modern Software Development. (5)
- (B) Define the term "Artefacts". List the five sets of artefacts. Define the following: VISION DOCUMENT, (5)
Software Architecture Description & Release Specifications.
- (C) Discuss three different aspects of Software Architecture from a Management Perspective. (5)
- (D) Map the Process Exponent Parameters of COCOMO to top 10 principles of Modern Process. (5)

Q.3 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

- (A) What do you mean by Workflow? Discuss briefly its types. (5)
- (B) Write a short note on Major Milestone. (5)
- (C) Define Work Breakdown Structure. Give the difference between Conventional and Evolutionary WBS. (5)
List issues related to Conventional WBS.
- (D) Explain Forward-Looking Approach for Cost and Schedule Estimating Process. (5)

Q.4 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

- (A) Discuss briefly, default roles in a software Line-of-business organization. (5)
- (B) Define Process Automation. Mention its significance. Also, mention the extent of automation at each (5)
level of the process.
- (C) Explain mapping between process workflows and software development tools. (5)
- (D) "The Project Environment Artefacts evolve through three Discrete States". Explain. (5)

Q.5 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

- (A) Define metrics and discuss characteristics of a Good Metric. (5)
- (B) Write a short note on "Earned Value System". (5)
- (C) Discuss the "Tailoring" concept in the context of software development. Explain the two Primary (5)
Dimensions of Process Variability.
- (D) Explain the process discriminators resulting from differences in process maturity. (5)

[TURN OVER]

Q.6 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

- (A) Discuss the five recurring issues of Conventional Process. How are they resolved by Modern Process Framework? (5)
- (B) How is risk resolution carried out in the Iterative Process? What is its advantage? (5)
- (C) How, balancing the top 10 Software Management Principles, Achieve Balance In Software Economics Equation. (5)
- (D) Discuss nine best practices of Software Management. (5)

Q.7 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

- (A) How "Peer Inspection" helps in improving ROI? Explain. (5)
 - (B) Explain in detail "Transition phase" of Software Development Life Cycle with the following details: Primary Objectives, Essential Activities & Evaluation Criteria. (5)
 - (C) What is the significance of Periodic Assessments? Discuss the contents of STATUS ASSESSMENT REVIEW. (5)
 - (D) Discuss the primitive components of a Software Change Order. (5)
 - (E) Write a short note on SPCP (Software Project Control Panel). (5)
 - (F) Write a short note on "Next Generation Cost Models". (5)
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